## Received Office of Oil \* Gas

WR-35 Rev. 8/23/13 JAN 27 2017

Page	of
~ ~~	

## State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 095	02204 C	County Tyler	District Center	ville		
Quad Shirley			Field/Pool Name NA			
Farm name Noble Ener	gy, Inc.	ad Name SHR 40	Well Number	SHR 40 BHS		
Operator (as registered w	vith the OOG) Not	ole Energy, Inc.				
Address 1000 Noble E	Energy Drive	City Canonsburg	State PA	Zip 15317		
		attach an as-drilled plat, pro ng_4362841.89	file view, and deviation surve Easting 514242.60	y		
Landing Point o		ng _4367778.26	Easting 514671.25			
Botto	m Hole Northi	ng 4360144.15	Easting <u>515680.08</u>			
Elevation (ft) 771	GL	Type of Well ■New □	Existing Type of Rep	oort □Interim <b>≜</b> Final		
Permit Type   Devia	ated   Horizon	tal 📕 Horizontal 6A 🛚 🗈	Vertical Depth Type	e 🗆 Deep 🛔 Shallow		
Type of Operation □ Co	nvert 🗆 Deepen	■ Drill □ Plug Back	Redrilling □ Rewo	rk 🗆 Stimulate		
Well Type 🗆 Brine Disp	oosal 🗆 CBM 🛢 G	as 🗆 Oil 🗆 Secondary Re	covery	Storage		
Type of Completion ■ S  Drilled with □ Cable	Single □ Multiple  ■ Rotary	Fluids Produced 🗆 Bri	ne □Gas □ NGL □ O	il 🗆 Other		
Drilling Media Surface	hole ■ Air □ M	fud □Fresh Water I	ntermediate hole	Mud □ Fresh Water □ Brine		
Production hole   Air		n Water □ Brine				
Mud Type(s) and Additi Synthetic Oil Based						
Date permit issued12	2/05/2014 <sub>D</sub>	ate arming commenced	04/06/2015 Date drill	ing ceased06/11/2015		
Date completion activitie	s began	NA Date con	mpletion activities ceased			
Verbal plugging (Y/N) _	N Date p	ermission granted	Granted by			
Please note: Operator is	required to submit a	plugging application withi	n 5 days of verbal permission	to plug		
F 1 4 1 1 ( ) 6	357		() (770) 1 1	none		
Freshwater depth(s) ft Salt water depth(s) ft	None noted for	055-1-	ne(s) (Y/N) depths			
Coal depth(s) ft	no coal	void(s) c	ncountered (Y/N) depths encountered (Y/N) depths			
- · · ·	ea (Y/N)	N	, , , , , ,	· · · · · · · · · · · · · · · · · · ·		

API 47- 095	995 - 02204 Farm name Noble Energy, Inc. Well number SHR 40 BI					: 40 BHS	
CASING STRINGS		Casing Size I		ew or Grade Jsed wt/ft	_	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36	20	40				
Surface	17 1/2	13 3/8 5	600.6	V J-5	5 54.5#		Υ
Coal							
Intermediate 1	13 3/8	9 5/8 22	236.5 N	N HCM	C-55 36#		Υ
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2 16	,297.8	N P-1	10 20#		Υ
Tubing							<u> </u>
Packer type and o	lepth set			I		1	
Comment Details	5						
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD	
Conductor	Class A	1	20.0	1.57			
Surface	Class A	420	15.6	1.20	92.0	0	8
Coal							
Intermediate 1	Lead Class A Tail Class H	Lead 830 Tail 337	Lead 15.6 Tail 12.5	Lead 1.18 Tail 0.94	Lead 175.0 Tail 56	.0 0	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead 740 Tail 2660	Lead 13.5 Tail 14.5	Lead 1.58 Tail 1.27	Lead 209.0 Tail 602	.0 3188.0	8
Tubing							
_	t) 16,311 ation penetrated Marce ocedure Not a Pilot Hole	ellus		ggers TD (ft) 16, g back to (ft) No			
Kick off depth	n (ft) 5,372						
Check all wire	eline logs run	=		deviated/directi gamma ray		luction mperature	□sonic
Well cored	Yes 🗆 No 🗈	□ Conventional	□ Sidewall	W	ere cuttings c	collected 🖪 Y	es □ No
	HE CENTRALIZER sed, one every third joint Intermedia						ers used. Fresh Water/Surface-
Production - 315 cent	tralizers - rigid bow spring every	third joint from KOP to TOC	, rigid bow spring ever	ry joint to KOP.			
WAS WELL (	COMPLETED AS S	HOT HOLE	Yes 🖪 No	DETAILS			
WAS WELL (	COMPLETED OPEN	N HOLE? 🗆 Ye	s 🖪 No	DETAILS			
WERE TRAC	ERS USED □ Yes	■ No TVI	PE OF TRACE	ER(S) USED			

WR-	35
Rev.	8/23/13

Page	of

API 47- 095 - 02204	Farm name Noble Energy, Inc.	SHR 40 BHS
---------------------	------------------------------	------------

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	Well has not	Been Completa			
		H			

Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)		Treatment ure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
									3
	SEE ATTAC	HED STIMUL	ATION					-	
		ION PER STA							
	RECORD								
	Well not	Complete	No	Data	Available				
							·		

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13		
API 47- <u>095</u> - <u>02204</u>	Farm name Noble Energy, Inc.	Well number PEN 2 BHS
PRODUCING FORMATION(S)	<u>DEPTHS</u>	

PRODUCING	FORMATION	( <u>S)</u>	<u>DEPTHS</u>					
				TVD _		MD		
						<del></del>		
Please insert ac	dditional pages	as applicable.						
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	C	DIL TEST □ F	low □ Pump		
SHUT-IN PRE	SSURE Sur	face	psi Bott	om Hole	psi	DURATION (	OF TEST	hrs
OPEN FLOW			NGL		Water			
	mc				bpd			□ Pilot
LITHOLOGY/	TOP	ВОТТОМ	TOP	ВОТТОМ				
FORMATION	DEPTH IN FT				Γ DESCRIBE RO	OCK TYPE AND	RECORD QUA	NTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FLU	JID (FRESHWAT	ER, BRINE, OII	L, GAS, H <sub>2</sub> S, ETC)
	0	-	0					
	SEE ATTACHI FORMATION							
	I OKWATION	JI ILLI						
							-	
						-		
					<del> </del>		· · ·	
						<del></del>		
· .								
lease insert ad	ditional pages a	s applicable.						
	ctor Precision D	rilling Company						
Address 5400 D	Big Tyler Road		City	Charleston	_	State WV	Zip <u></u> 25313	
ogging Compa	any Baker Hugh	es						
Address 400 Te	chnology Drive #12	20	City	Canonsburg		State PA	Zip 15317	
Cementing Con	npany Allied Cer	menting Compa		Clarkshurg		Ctata W/V	~· 26301	
iddiess			City	Olarksburg		State W	Zip <u></u>	
	mpany							
Address	11		City			State	Zip	
lease insert ad	ditional pages a	s applicable.						
Completed_by	Regina A Logue				Telephone 7	24-820-3559		
ignature Ko	Regina A Logue	Logue	Title R	egulatory Analy	st	Date 01	1/20/2017	<del></del>
uomiiital of Hy	draulic Fracturi	ng Chemical L	asclosure Info	mation 4	attach conv of I	-RACEOCHS	Registry	

Page \_\_\_ of \_\_\_

SHR 40 BHS		
Formations	Тор	Base
Shale	0	1020
Shale and Sandstone	1020	1743
Big Lime	1743	1871
Big Injun	1871	1978
Price	1978	2129
Weir	2129	2233
Shale	2233	2320
Berea	2320	2328
Shale	2328	2509
Sandstone	2509	2611
Shale	2611	2747
Sandstone	2747	2765
Shale	2765	3239
Warren	3239	3285
Shale and Sandstone	3285	3637
Lower Huron	3637	4395
Sandstone	4395	4433
Shale	4433	4627
Sandstone	4627	4683
Shale	4683	4807
Benson	4807	4851
Shale	4851	5051
Alexander	5051	5109
Shale	5109	6050
Cashaqua	6050	6161
Middlesex	6161	6195
West River	6195	6263
Burkett	6263	6297
Tully	6297	6300
Hamilton	6300	6317
Marcellus	6317	6381
O		

6381

Onondaga

